



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,829	12/31/2003	Vincent Huang	1184AAE	3608
7590	06/09/2004		EXAMINER	
Vincent Huang & Jim Huang P.O. Box 10-69 Chong Ho Taipei, 235 TAIWAN			MACARTHUR, VICTOR L	
			ART UNIT	PAPER NUMBER
			3679	
DATE MAILED: 06/09/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.	10/751,829	
Examiner	HUANG ET AL.	
Victor MacArthur	Art Unit 3679	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

1) Responsive to communication(s) filed on \_\_\_\_\_.  
2a) This action is FINAL.                    2b) This action is non-final.  
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

4) Claim(s) 1-3 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.  
5) Claim(s) \_\_\_\_ is/are allowed.  
6) Claim(s) 1-3 is/are rejected.  
7) Claim(s) \_\_\_\_ is/are objected to.  
8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

9) The specification is objected to by the Examiner.  
10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All    b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

1) Notice of References Cited (PTO-892)  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.  
5) Notice of Informal Patent Application (PTO-152)  
6) Other: \_\_\_\_\_.

## DETAILED ACTION

In accordance with MPEP § 609, 707.05 and 2001.06(b); the prior art cited in the parent application was reviewed prior to preparation of this Office Action.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Suei-Long U.S. Patent 5154449.

Claim 1. Suei-Long discloses (fig.3) a coupler body including two ears (214) extended therefrom, and having a channel (212) formed between the ears, the ears each including an orifice (412) formed therein, a lever (4) including a first end (41) received in the channel of the body, and having an aperture (aperture within 41) formed therein for aligning with the orifices of the ears, and an integral one-piece locking pin (215) engaged through the orifices of the ears and engaged through the aperture of the lever, to pivotally secure the lever to the ears, the locking pin including a first end (right end) having a head (portion of 215 received within right 214) provided thereon for engaging with a first ear (right 214) of the ears, and the locking pin including a second end (end received within left 214) having an opening (hollow portion of 215) formed therein and defined by a peripheral wall (wall of 215), the peripheral wall of the locking pin being arranged to be expended (via longitudinal slot in 215) and deformed radially outward

to engage with a second ear of the ears, to solidly secure the locking pin to the ears, and thus to stably and rotatably secure the lever to the coupler body.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suei-Long U.S. Patent 5154449 in view of Peck U.S. Patent 422824.

Claim 2. Suei-Long does not disclose that the locking pin is shaped such that the head has a flat peripheral surface. Peck teaches (fig.2) a locking pin that is shaped such that the head (b) of the locking pin includes an inner portion (underside of b) having a flat peripheral surface (flat peripheral surface of the underside of b) formed thereon. Peck states (col.2, ll.38-45) that shaping locking pins in such a manner improves manufacturability. It has generally been recognized that a change in the shape of a prior art device is a design consideration within the skill of the art. In re Dailey, 357 F.2d 669, 149 USPQ 47 (CCPA 1966). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify the Suei-Long locking pin to be shaped, as taught by Peck, for the purpose of improving manufacturability, as such practice is a design consideration within the skill of the art. Furthermore, such modification would necessarily result in the flat peripheral surface flatly engaging with the first ear.

Claim 3. Peck teaches that the head of the locking pin includes an outer portion (top portion of b) having a convex bulge (convex bulge of b) extended outward therefrom, opposite to the inner flat peripheral surface thereof. The bulge inherently acts to increase a strength of the head of the locking pin, in as much as the applicant's invention does.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Referring to couplers:

Harle U.S. Patent 5947530

McKiernan U.S. Patent 5433163

Chaban U.S. Patent 5738475

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor MacArthur whose telephone number is (703) 305-5701. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Art Unit: 3679

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

*VLM*  
VLM  
May 29, 2004

*Daniel P Stodola*

DANIEL P. STODOLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600